STN- Structure Search 1.27.05

10/825,758

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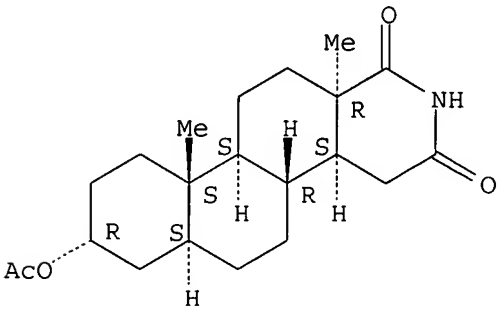
L4 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:688277 CAPLUS
DOCUMENT NUMBER: 140:59822
TITLE: Preparation of (5α,13α)-D-azasteroids as key precursors of a new family of potential GABAA receptor modulators
AUTHOR(S): Wang, Cunde; Wang, Shaozhong; Xu, Yingju; Hu, Yuefei; Hu, Hongwen
CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China
SOURCE: Steroids (2003), 68(7-8), 677-683
CODEN: STEDAM; ISSN: 0039-128X
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:59822

AB Three groups of (5α,13α)D-azasteroids, (5α,13α)-3-hydroxy-17a-aza-D-homoandrostans, (5α,13α)-3-hydroxy-17-aza-D-homoandrostans, and (5α,13α)-3-hydroxy-17-azaandrostans, were designed and synthesized as key precursors for the further preparation of a new family of potential GABAA receptor modulators from com. available natural steroids (5α)-3-hydroxyandrostane-17-ones.

IT **639461-78-2P 639461-85-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of (5α,13α)-D-azasteroids from (5α)-3-hydroxyandrostane-17-ones)

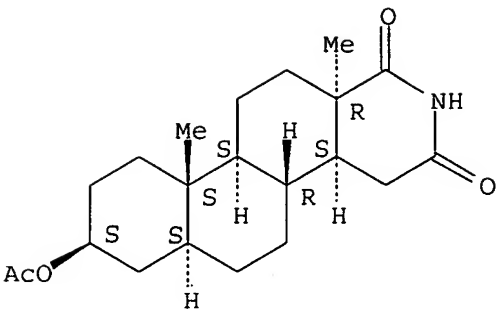
RN 639461-78-2 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 8-(acetyloxy)tetradecahydro-10a,12a-dimethyl-, (4aS,4bR,6aS,8R,10aS,10bS,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 639461-85-1 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 8-(acetyloxy)tetradecahydro-10a,12a-dimethyl-, (4aS,4bR,6aS,8S,10aS,10bS,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Inventor

L4 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:319919 CAPLUS
DOCUMENT NUMBER: 138:338333
TITLE: Preparation of sulfamoyl steroidal imide derivs. for inhibition of steroid sulfatase
INVENTOR(S): Potter, Barry Victor Lloyd; Reed, Michael John; Woo, Lok Wai Lawrence
PATENT ASSIGNEE(S): Sterix Limited, UK
SOURCE: PCT Int. Appl., 156 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003033518	A1	20030424	WO 2002-GB4686	20021017
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
WO 2002032409	A2	20020425	WO 2001-GB4645	20011018
WO 2002032409	A3	20020808		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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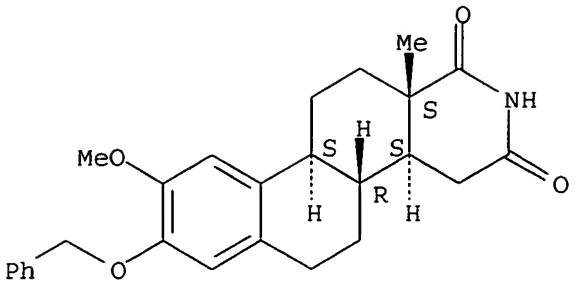
EP 1448592	A1	20040825	EP 2002-801418	20021017
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2005014776	A1	20050120	US 2004-825758	20040416
PRIORITY APPLN. INFO.:			GB 2001-25073	A 20011018
			WO 2001-GB4645	A 20011018



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:311321 CAPLUS
DOCUMENT NUMBER: 139:271191
TITLE: Novel D-ring modified steroid derivatives as potent, non-estrogenic, steroid sulfatase inhibitors with in vivo activity
AUTHOR(S): Fischer, Delphine S.; Chander, Surinder K.; Woo, L. W. Lawrence; Fenton, Janine C.; Purohit, Atul; Reed, Michael J.; Potter, Barry V. L.
CORPORATE SOURCE: Department of Pharmacy and Pharmacology, University of Bath, Bath, BA2 7AY, UK
SOURCE: Journal of Steroid Biochemistry and Molecular Biology (2003), 84(2-3), 343-349
CODEN: JSBBEZ; ISSN: 0960-0760
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

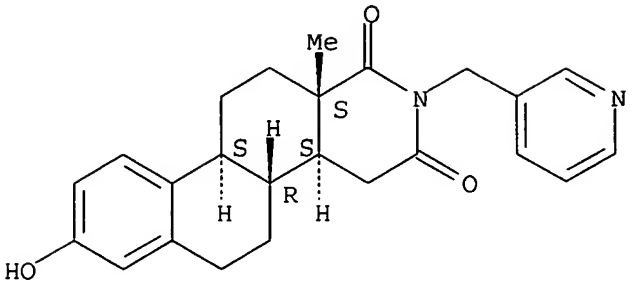
AB In pursuit of novel steroid sulfatase (STS) inhibitors devoid of estrogenicity, several D-ring modified steroid derivs. were synthesized. In vitro evaluation of the compds. identified two highly potent inhibitors, 4a and 4b, which were 18 times more active than estrone-3-O-sulfamate (EMATE), both having IC50 values of .apprx.1 nM. These 16,17-seco-estra-1,3,5(10)-triene-16,17-imide derivs. were synthesized from estrone, via the intermediate 1, which was easily alkylated, deprotected and sulfamoylated affording the final compds. in high yields. To assess their biol. profile, the selected inhibitors were tested for their in vivo inhibitory potency and estrogenicity in ovariectomized rats. After an oral dose of 10 mg/kg per day for 5 days, 4a and 4b were found to inhibit rat liver steroid sulfatase by 99%. They were also devoid of estrogenic activity in the uterine weight gain assay, indicating that these two leads have therapeutic potential for the treatment of hormone-dependent breast cancer.

IT **415974-72-0P**
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(novel D-ring modified steroid derivs. as potent, non-estrogenic, steroid sulfatase inhibitors with rat in-vivo activity)

RN 415974-72-0 CAPLUS
CN Sulfamic acid, (4aS,4bR,10bS,12aS)-1,2,3,4,4a,4b,5,6,10b,11,12,12a-dodecahydro-12a-methyl-1,3-dioxo-2-propylnaphth[2,1-f]isoquinolin-8-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

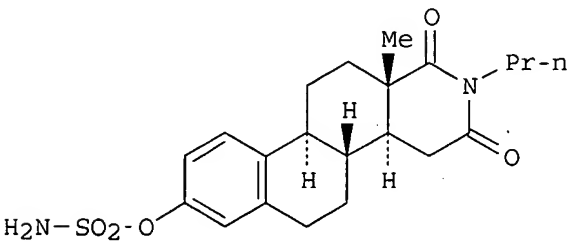
Absolute stereochemistry.



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

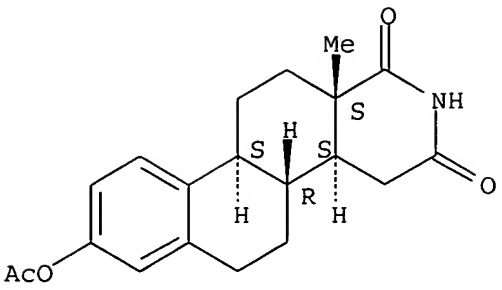
L4 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:235023 CAPLUS
DOCUMENT NUMBER: 139:85532
TITLE: D-Ring Modified Estrone Derivatives as Novel Potent Inhibitors of Steroid Sulfatase
AUTHOR(S): Fischer, Delphine S.; Woo, L. W. Lawrence; Mahon, Mary F.; Purohit, Atul; Reed, Michael J.; Potter, Barry V. L.
CORPORATE SOURCE: Department of Pharmacy and Pharmacology and Sterix Ltd., Medicinal Chemistry, University of Bath, Claverton Down, Bath, BA2 7AY, UK
SOURCE: Bioorganic & Medicinal Chemistry (2003), 11(8), 1685-1700
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:85532
GI



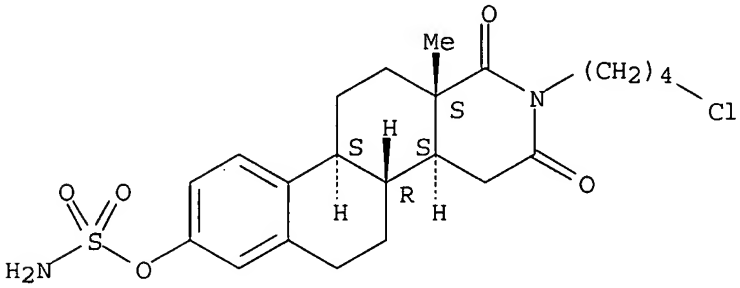
I

AB A series of novel D-ring modified derivs. of estrone was synthesized and tested as inhibitors of steroid sulfatase (STS). The steroidal D-ring was cleaved via an iodoform reaction and thermal condensation of the resulting marrianolic acid derivative gave 16,17-seco-estra-1,3,5(10)-triene-16,17-imide derivs., where a piperidinedione moiety is in place of the D-ring. This synthetic approach was found to give a higher overall yield than the literature method of Beckmann rearrangement. A range of alkyl side chains have been introduced on the nitrogen atom of the imido-ring and the corresponding 3-O-sulfamates synthesized. The new D-ring modified estrone derivs. bearing a Pr (I) and a pyridin-3-ylmethyl moiety had IC50 values of 1 nM when tested in placental microsomes for the inhibition of STS. These compds. are therefore up to 18-fold more potent than EMATE, the very first highly potent irreversible steroidal STS inhibitor.



RN 556050-42-1 CAPLUS
CN Sulfamic acid, (4aS,4bR,10bS,12aS)-2-(4-chlorobutyl)-1,2,3,4,4a,4b,5,6,10b,11,12,12a-dodecahydro-12a-methyl-1,3-dioxonaphth[2,1-f]isoquinolin-8-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:314755 CAPLUS
DOCUMENT NUMBER: 136:340868
TITLE: Preparation of estrone derivatives for therapeutic use as steroid sulfatase and steroid dehydrogenase inhibitors for treatment of breast cancer
INVENTOR(S): Potter, Barry Victor Lloyd; Reed, Michael John
PATENT ASSIGNEE(S): Sterix Limited, UK
SOURCE: PCT Int. Appl., 142 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032409	A2	20020425	WO 2001-GB4645	20011018
WO 2002032409	A3	20020808		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2002010687	A5	20020429	AU 2002-10687		20011018
WO 2003033518	A1	20030424	WO 2002-GB4686		20021017
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
EP 1448592	A1	20040825	EP 2002-801418		20021017
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK					
US 2005014776	A1	20050120	US 2004-825758		20040416
PRIORITY APPLN. INFO.:			GB 2000-25788	A	20001020
			GB 2001-25073	A	20011018
			WO 2001-GB4645	W	20011018
			GB 2002-9274	A	20020423
			WO 2002-GB4686	W	20021017

OTHER SOURCE(S): MARPAT 136:340868

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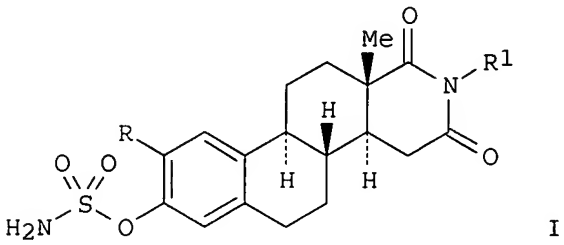

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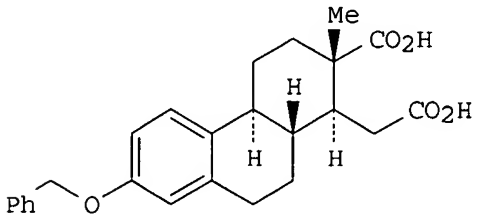
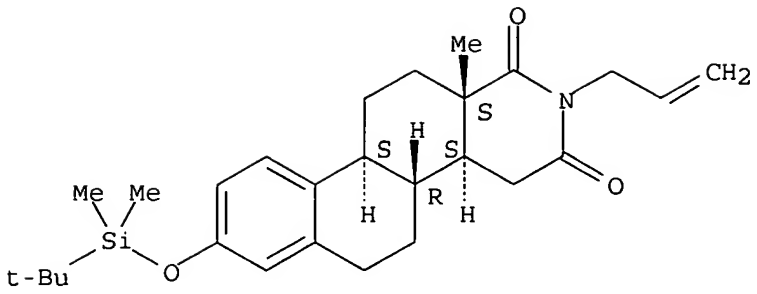


II

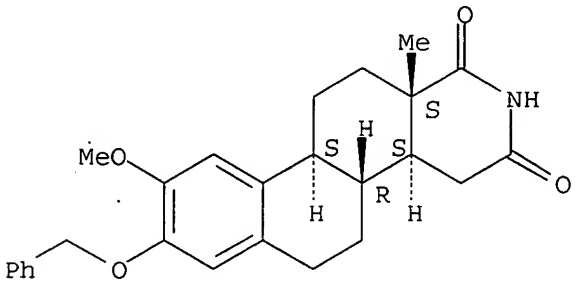
AB Estrone derived. sulfamoyloxy-azasteroids, such as I [R = H, OMe; R1 = H, alkyl, alkenyl, benzyl, picolyl, etc.], were prepared for pharmaceutical use as steroid sulfatase and steroid dehydrogenase inhibitors for treatment of diseases involving estrogen biosynthesis, such as breast cancer. Thus, I (R = H, R1 = CH2Ph) was prepared via a series of synthetic steps which included conversion of 3-O-benzylestrone to dicarboxylic acid II using I2 and KOH in MeOH, cyclocondensation of II with PhCH2NH2 by heating at 180° for 3 h, hydroxyl deprotection of the N,O-dibenzylazaestratriene by Pd/C catalyzed hydrogenation, and reaction of the N-benzyl-3-hydroxyazaestratriene with sulfamoyl chloride in DMA. The prepared sulfamoyloxy-azasteroids were assayed for their effect on conversion of estrone to estradiol in T47D and MDA-MB-231 breast cancer cells and for modulation of steroid sulfatase activity using MCF-7 human breast cancer cells. Pharmaceutical formulations of the azasteroids were also discussed.

IT **415974-69-5P 415974-70-8P 415974-71-9P**
415974-72-0P 415974-73-1P 415974-74-2P
415974-75-3P 415974-76-4P 415974-77-5P



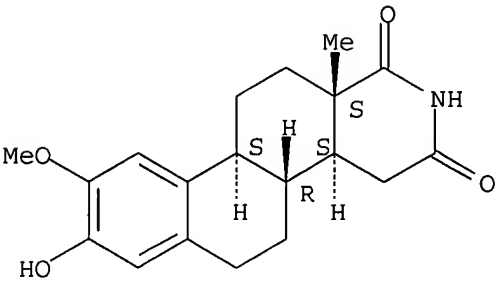
RN 415974-83-3 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 4a,4b,5,6,10b,11,12,12a-octahydro-9-methoxy-12a-methyl-8-(phenylmethoxy)-, (4aS,4bR,10bS,12aS)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



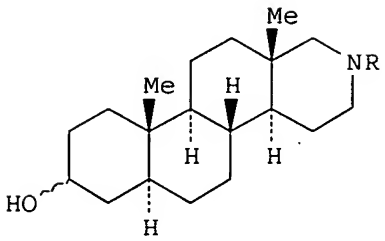
RN 415974-84-4 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 4a,4b,5,6,10b,11,12,12a-octahydro-8-hydroxy-9-methoxy-12a-methyl-, (4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:467634 CAPLUS
DOCUMENT NUMBER: 135:257385
TITLE: Synthesis of (5α)-17-azaandrostan-3-ols and (5α)-17-aza-D-homoandrostan-3-ols and their N-acylated derivatives
AUTHOR(S): Jiang, X.; Wang, J.; Hu, J.; Ge, Z.; Hu, Y.; Hu, H.; Covey, D. F.
CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China

SOURCE: Steroids (2001), 66(8), 655-662
CODEN: STEDAM; ISSN: 0039-128X
PUBLISHER: Elsevier Science Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:257385
GI



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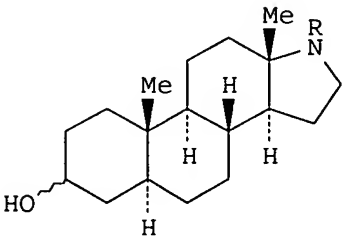


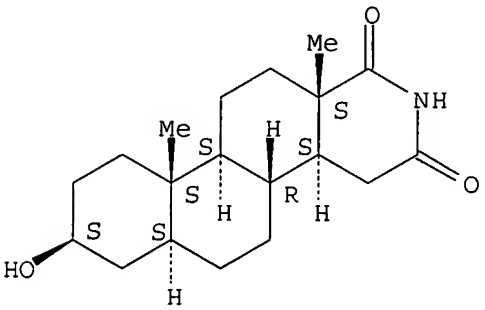
II

AB Two groups of N-acylated D-azasteroids I and II (R = Ac, COCF3, COCH2OH) were synthesized to explore structure-activity relationships for steroid modulation of GABAA receptor function. The target compds. were prepared conveniently from (5α)-3-hydroxyandrostan-17-ones via the intermediate (5α)-17-aza-D-homoandrostan-3-ols II (R = H) or (5α)-17-azaandrostan-3-ols I (R = H) precursors in high overall yields. A Beckmann rearrangement and a Hofmann rearrangement were employed as two key steps in the synthetic sequences.

IT **35570-06-0P 35574-26-6P 85639-97-0P**
361434-75-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of (5α)-17-azaandrostan-3-ols and (5α)-17-aza-D-homoandrostan-3-ols and N-acylated derivs.)

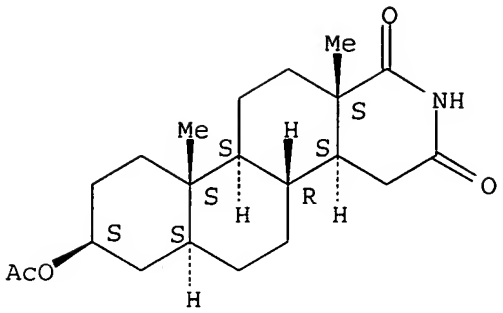
RN 35570-06-0 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, tetradecahydro-8-hydroxy-10a,12a-dimethyl-, (4aS,4bR,6aS,8S,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



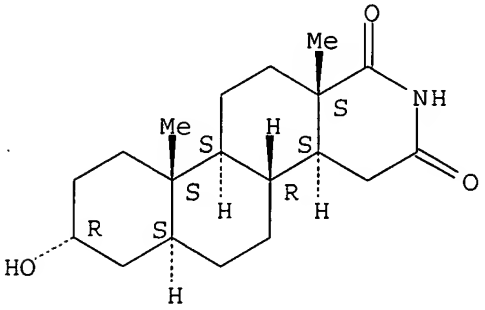
RN 35574-26-6 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 8-(acetyloxy)tetradecahydro-10a,12a-dimethyl-, (4aS,4bR,6aS,8S,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



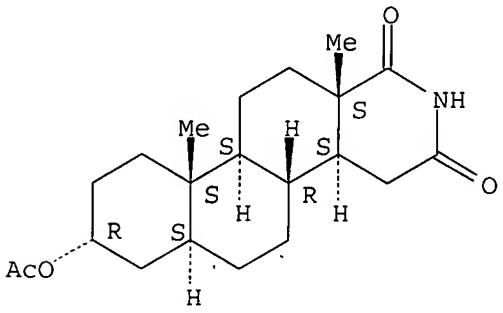
RN 85639-97-0 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, tetradecahydro-8-hydroxy-10a,12a-dimethyl-, (4aS,4bR,6aS,8R,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 361434-75-5 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 8-(acetyloxy)tetradecahydro-10a,12a-dimethyl-, (4aS,4bR,6aS,8R,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

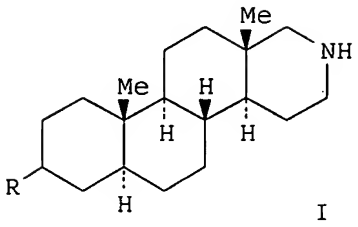
Absolute stereochemistry.



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:784759 CAPLUS
DOCUMENT NUMBER: 134:101057
TITLE: Tigogenine-based synthesis of 3β-hydroxy- and 3α-methoxy-17-aza-D-homoandrostanes
AUTHOR(S): Amiranashvili, L.; Menshova, N.; Suvorov, N.
CORPORATE SOURCE: Georgian Academy of Sciences, I. Kutateladze Inst. of

Pharmacochemistry, Georgia
SOURCE: Bulletin of the Georgian Academy of Sciences (2000), 161(2), 252-253
CODEN: BGASFC; ISSN: 1560-0262
PUBLISHER: Georgian Academy of Sciences
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



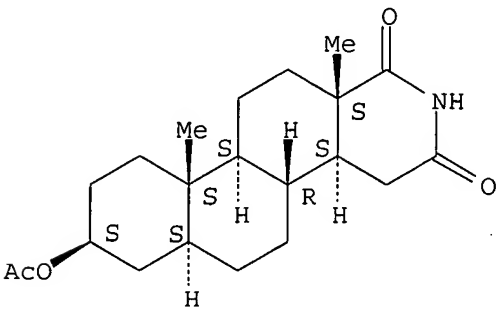
I

AB On the basis of local vegetable raw material - tigogenin - the new derivs. of D-homo-androstane line - 3β-hydroxy- (I; R = H) and 3α-methoxy-17-aza-D-homoandrostanes (I; R = Me) have been synthesized with an aim to study influence of the D-ring transformation on the anti-arrhythmic activity, as compared to 5α-androstane line derivs.

IT **35574-26-6P**, 3β-Acetoxy-17-aza-D-homoandrostane-16,17a-dione
131325-52-5P, 3α-Methoxy-17-aza-D-homoandrostane-16,17a-dione
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(tigogenin-based synthesis of 3β-hydroxy- and 3α-methoxy-17-aza-D-homoandrostanes)

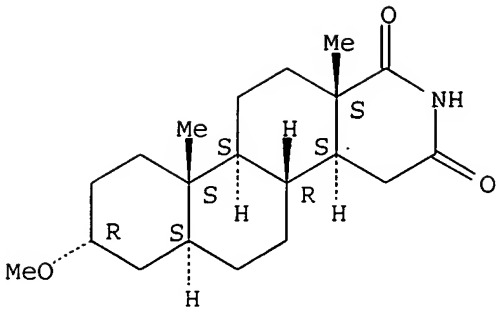
RN 35574-26-6 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 8-(acetyloxy)tetradecahydro-10a,12a-dimethyl-, (4aS,4bR,6aS,8S,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 131325-52-5 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, tetradecahydro-8-methoxy-10a,12a-dimethyl-, (4aS,4bR,6aS,8R,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

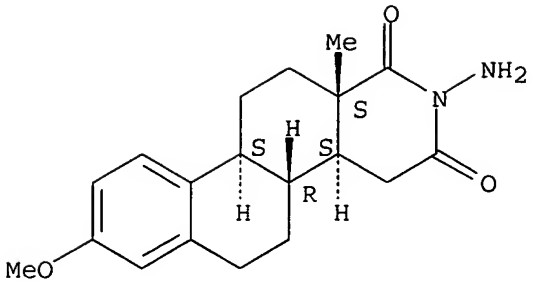
L4 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:533593 CAPLUS
DOCUMENT NUMBER: 131:351525
TITLE: Synthesis and biological activity of some D-ring modified estrone derivatives
AUTHOR(S): Gupta, Ranju; Jindal, Dharam Paul; Borras, M.; Legros, N.; Leclercq, G.
CORPORATE SOURCE: University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh, 160014, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1999), 38B(5), 563-571
CODEN: IJSBDB; ISSN: 0376-4699
PUBLISHER: National Institute of Science Communication, CSIR
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 131:351525
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB 3-Methoxy-17-aza-D-homo-1,3,5(10)-estratriene-16,17a-dione [I; R = MeO, R1 = H], 16,17a-dioxo-17-aza-D-homo-1,3,5(10)-estratrien-3-yl acetate [I; R = OAC, R1 = H] and a series of related compds. have been synthesized from 3-methoxy-16-oximino-1,3,5(10)-estratrien-17-one [II; R = MeO] and 3-hydroxy-16-oximino-1,3,5 (10)-estratrien-17-one [II; R = H], resp. The compds. I [R, R1 = MeO, H (DPJ-280); OH, Bu (DPJ-369); OH, allyl (DPJ-370); OH, CH2CH2NMe2 (DPJ-354); OH, 2-pyrrolidinoethyl (DPJ-320); OH, NH2 (DPJ-321); OH, H (DPJ-374)] and DPJ-284 have been evaluated for their estrogenic/antiestrogenic activities and the compds. I [R = MeO throughout, R1 = H, CH2CH2NMe2, CH2CH2NEt2, 2-pyrrolidinoethyl, 2-piperidinoethyl, Me, Bu, allyl] and I [R, R1 = OAc, H; 2-pyrrolidinoethoxy, butyl; OAc, allyl; OH, CH2CH2NMe2; OH, 2-piperidinoethyl; OH, NH2; butoxy, butyl] and III have been screened for antineoplastic activity at NCI, Bethesda.

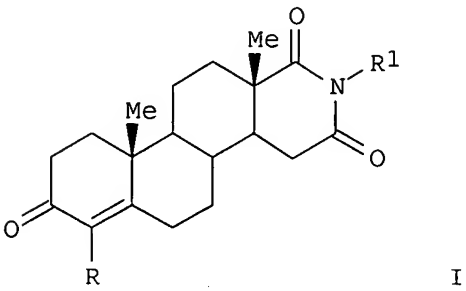
IT **35570-05-9P 250636-96-5P 250636-98-7P 250636-99-8P 250637-00-4P 250637-01-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and biol. activity of D-ring modified estrone derivs.)

RN 35570-05-9 CAPLUS



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:589259 CAPLUS
DOCUMENT NUMBER: 123:112502
TITLE: Synthesis and biological activity of steroidal imides
AUTHOR(S): Verma, A. K.; Jindal, D. P.
CORPORATE SOURCE: Department Pharmaceutical Sciences, Panjab University, Chandigarh, 160 014, India
SOURCE: European Journal of Medicinal Chemistry (1995), 30(4), 339-41
CODEN: EJMCA5; ISSN: 0223-5234
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



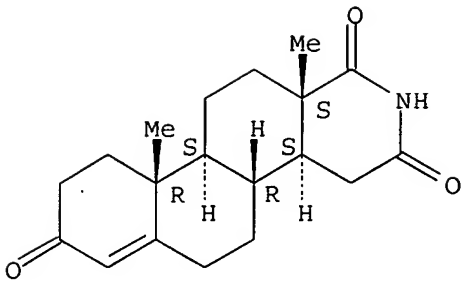
I

AB Azahomosteroids I [R = OH, R1 = H; R = H, R1 = Me] were prepared from I [R = R1 = H]. I are devoid of aromatase-inhibiting and antineoplastic activity.

IT **158661-63-3**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
(synthesis and biol. activity of steroidal imides)

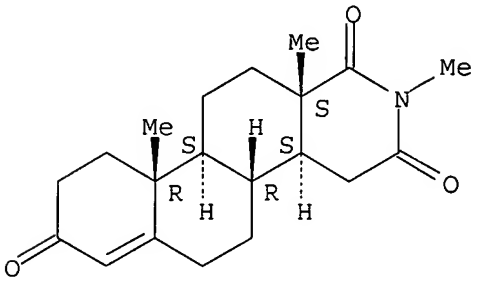
RN 158661-63-3 CAPLUS
CN 17-Aza-D-homoandrost-4-ene-3,16,17a-trione (9CI) (CA INDEX NAME)

Absolute stereochemistry.



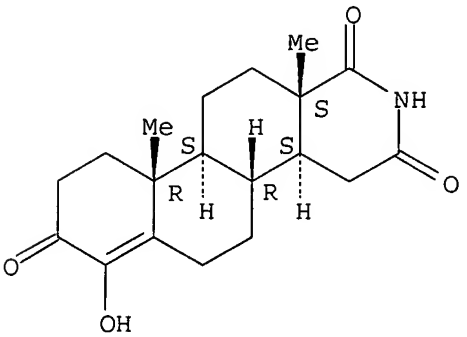
IT **165618-28-0P 165618-30-4P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and biol. activity of steroidal imides)
RN 165618-28-0 CAPLUS
CN 17-Aza-D-homoandrost-4-ene-3,16,17a-trione, 17-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 165618-30-4 CAPLUS
CN 17-Aza-D-homoandrost-4-ene-3,16,17a-trione, 4-hydroxy- (9CI) (CA INDEX NAME)

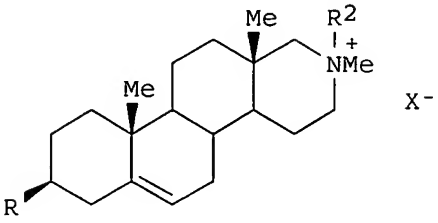
Absolute stereochemistry.



L4 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:656112 CAPLUS
DOCUMENT NUMBER: 121:256112
TITLE: Synthesis and biological activity of 17-azasteroidal neuromuscular-blocking agents

10/825,758

AUTHOR(S): Verma, A. K.; Lee, C. Y.; Habtemariam, S.; Harvey, A. L.; Jindal, D. P.
CORPORATE SOURCE: Department of Pharmaceutical Sciences, Panjab University, Chandigarh, 160 014, India
SOURCE: European Journal of Medicinal Chemistry (1994), 29(5), 331-8
CODEN: EJMCA5; ISSN: 0223-5234
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



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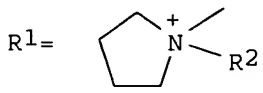
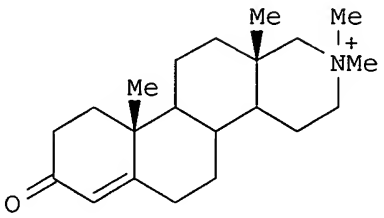




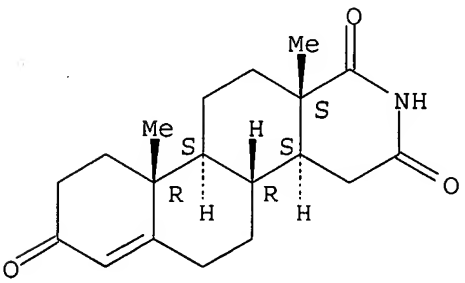
II

AB New analogs of chandonium iodide have been prepared and evaluated for potential neuromuscular blocking activity in in vitro studies using chick biventer cervicis prepns. All the biquaternary compds. I [R = R1, R2 = Me, Et, Bu; X = I, Br, Cl] showed potent neuromuscular-blocking activity but slightly less than chandonium iodide. There is a slight increase in the interonium distance between the 2 quaternary heads of I [R = R1, R2 = Me, X = I]. Monoquaternary ammonium derivs. I [R = N-methylpyrrolidinium, R2 = H, X = I; R = OH, OAc, R2 = Me, X = I] and II were also synthesized and pharmacol. tested. They exhibited weak neuromuscular-blocking activity as compared to the biquaternary compds. and chandonium iodide.

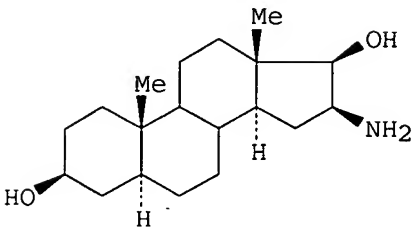
IT **158661-63-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of azahomoandrostenes)

RN 158661-63-3 CAPLUS
CN 17-Aza-D-homoandrost-4-ene-3,16,17a-trione (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:43281 CAPLUS
DOCUMENT NUMBER: 114:43281
TITLE: Steroids. LV. Synthesis of 16β-amino-3β,17β-dihydroxy-5α-androstane from epiandrosterone and the structure of its triacetate
AUTHOR(S): Amiranashvili, L. Sh.; Sladkov, V. I.; Lindeman, S. V.; Aleksanyan, M. S.; Struchkov, Yu. T.; Suvorov, N. N.
CORPORATE SOURCE: Mosk. Khim.-Tekhnol. Inst., Moscow, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1990), 26(5), 1052-8
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 114:43281
GI



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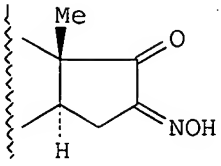


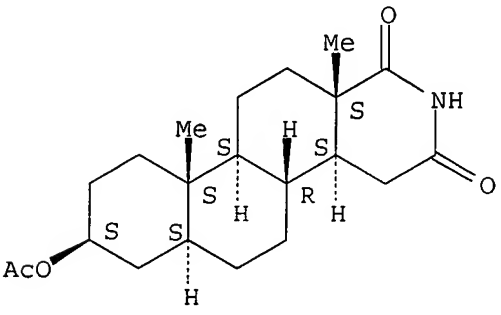
II

AB The title compound I was prepared in 2 steps from epiandrosterone via oxime II.

IT **35574-26-6P 131325-52-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

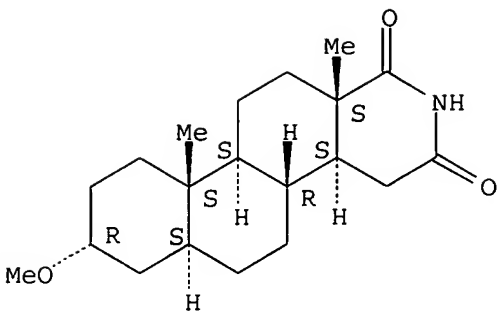
RN 35574-26-6 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 8-(acetyloxy)tetradecahydro-10a,12a-dimethyl-, (4aS,4bR,6aS,8S,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 131325-52-5 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, tetradecahydro-8-methoxy-10a,12a-dimethyl-, (4aS,4bR,6aS,8R,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



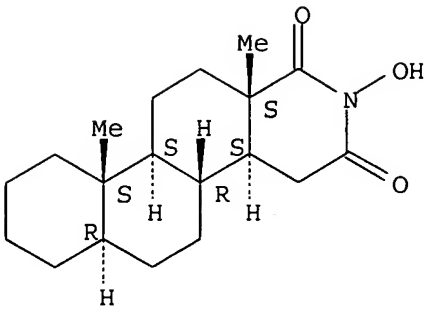
L4 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:633353 CAPLUS
DOCUMENT NUMBER: 111:233353
TITLE: Photoinduced molecular transformations. 104. Pathways of the photorearrangements of five-membered cyclic steroidal α-nitro ketones to N-hydroxy cyclic imides, cyclic hydroxamic acid, and cyclic imide
AUTHOR(S): Suginome, Hiroshi; Kurokawa, Yoshitaka
CORPORATE SOURCE: Fac. Eng., Hokkaido Univ., Sapporo, 060, Japan
SOURCE: Journal of Organic Chemistry (1989), 54(25), 5945-53
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:233353
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

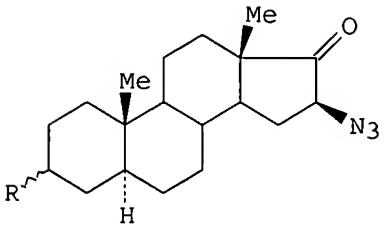
AB The photolysis of 5- and 7-membered cyclic steroidal α-nitro ketones was studied. The photolysis of 16-nitroandrostan-17-one I, which exists largely in the enol form in EtOH, gave cyclic N-hydroxy imide II as the major product. II was formed via a photochem. rearrangement. The photolysis of 15α-nitro-5α-androstan-16-one III, which exists exclusively in the keto form in EtOH, gave cyclic imide IV. The photolysis of 7-membered cyclic α-nitro ketones V and VI gave the corresponding α-hydroxyimino ketones.

IT **123239-89-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 123239-89-4 CAPLUS
CN 17-Aza-D-homoandrostane-16,17a-dione, 17-hydroxy-, (5α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:198550 CAPLUS
DOCUMENT NUMBER: 98:198550
TITLE: Steroids. III. New synthesis of ring-D seco steroids
AUTHOR(S): Takahashi, Tomoyoshi; Satoh, Yasuo
CORPORATE SOURCE: Sch. Med., Jikei Univ., Tokyo, 182, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1983), 56(1), 355-6
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



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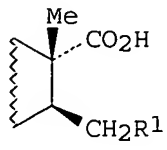
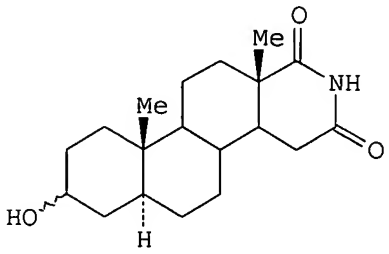


II



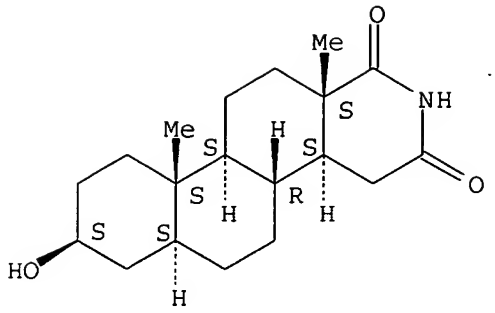
III

AB Azidoandrostanones I (R = α-HO, β-HO) were cleaved with Br2-HOAc at room temperature, to androstanoic acids II (R = α-AcO, β-AcO; R1 = cyano, CONH2). Aza-D-homoandrostandiones III were also prepared

IT **35570-06-0P 85639-97-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

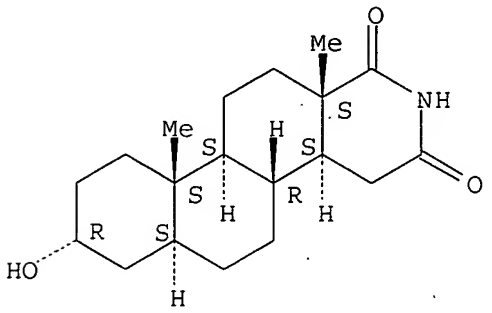
RN 35570-06-0 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, tetradecahydro-8-hydroxy-10a,12a-dimethyl-, (4aS,4bR,6aS,8S,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



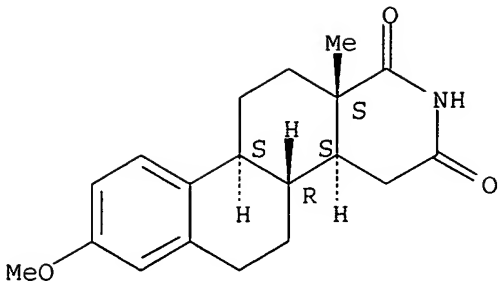
RN 85639-97-0 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, tetradecahydro-8-hydroxy-10a,12a-dimethyl-, (4aS,4bR,6aS,8R,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute.stereochemistry.



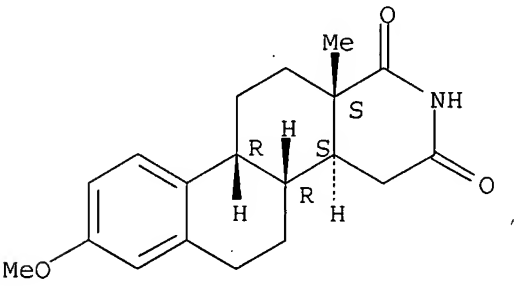
L4 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1981:109816 CAPLUS
DOCUMENT NUMBER: 94:109816
TITLE: Separation of some estrogens by thin-layer chromatography
AUTHOR(S): Petrovic, Slobodan M.; Traljic, Eva; Petrovic, Julijana A.
CORPORATE SOURCE: Fac. Technol., Univ. Novi Sad, Novi Sad, 21000, Yugoslavia
SOURCE: Journal of Chromatography (1981), 205(1), 223-6
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Solns. of 13 estrogens (0.5% solns. in CHCl3) were spotted on silica gel-coated glass plates and developed by 2-dimensional ascending chromatog. using 8:1 C6H6:Me2CO, 7:1 C6H6:EtOAc, 4:1 CHCl3:EtOAc, 2:1 hexane:Me2CO, or 8:1 cyclohexane:Me2CO. Optimum sepns. were achieved by using 8:1 C6H6:Me2CO or 8:1 cyclohexane:Me2CO.
IT **35570-05-9**
RL: PRP (Properties)
(thin-layer chromatog. in separation of)
RN 35570-05-9 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 4a,4b,5,6,10b,11,12,12a-octahydro-8-methoxy-12a-methyl-, (4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1974:478133 CAPLUS
DOCUMENT NUMBER: 81:78133
TITLE: Acyloin condensation of the trimethyl ester of dl-9β-marrianolic acid
AUTHOR(S): Andryushina, V. A.; Popova, E. V.; Anisimova, O. S.; Grinenko, G. S.
CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst.im. Ordzhonikidze, Moscow, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1974), 10(6), 1212-15
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB Marrianolate I was treated with Na in NH3(1)-Et2O to give 57% oxahomoestratriene II, 21% estratrienediol III, and 10% azahomoestratriene IV.
IT **53187-59-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 53187-59-0 CAPLUS
CN 17-Aza-D-homoestra-1,3,5(10)-triene-16,17a-dione, 3-methoxy-, (9β)-(±)- (9CI) (CA INDEX NAME)

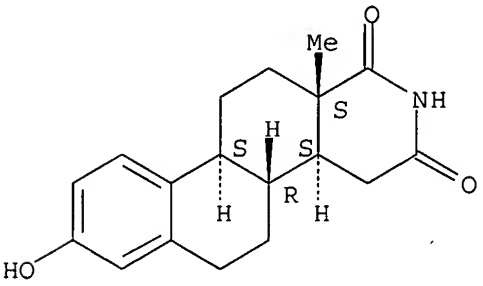
Relative stereochemistry.



L4 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1974:121184 CAPLUS
DOCUMENT NUMBER: 80:121184
TITLE: Rearrangements of steroids. VII. Schmidt reaction and Beckmann rearrangement of estrone and its derivatives
AUTHOR(S): Matkovics, Bela; Tarodi, Bela; Belaspiri, Lajos
CORPORATE SOURCE: Inst. Anim. Physiol., Attila Jozsef Univ., Szeged, Hung.
SOURCE: Acta Chimica Academiae Scientiarum Hungaricae (1974),

80(1), 79-87
CODEN: ACASA2; ISSN: 0001-5407
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The products of the Schmidt reaction of estrones I (R = H, Me, cyclopentyl, Ac) and Beckman rearrangement of estrone oximes II (R = H, Me, cyclopentyl, Ac) were determined E.g., II (R = H) was heated in pyridine containing 4-AcNHC6H4SO2Cl to give 17a-aza-D-homoestratriene III (R = H) and secoestratetraene IV (R = H); I (R = H) was heated in polyphosphoric acid with NaN3 to give III (R = H) and 17-aza-D-homoestratriene V (R = H).
IT **52075-48-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 52075-48-6 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 4a,4b,5,6,10b,11,12,12a-octahydro-8-hydroxy-12a-methyl-, (4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

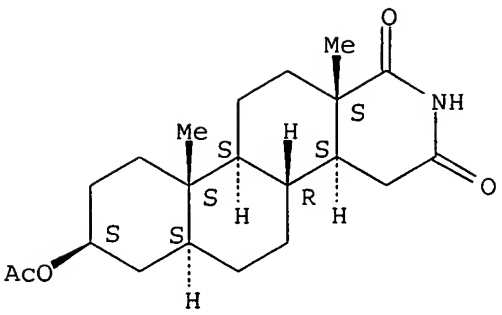
Absolute stereochemistry.



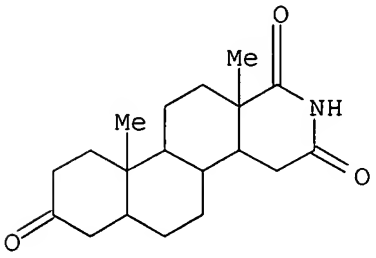
L4 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1972:405672 CAPLUS
DOCUMENT NUMBER: 77:5672
TITLE: D-Homoimide derivatives of steroids
INVENTOR(S): Tuba, Zoltan; Bor, Maria
PATENT ASSIGNEE(S): Richter, Gedeon, Vegyeszeti Gyar Rt.
SOURCE: Ger. Offen., 19 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2130281	A	19720127	DE 1971-2130281	19710618
AT 314746	B	19740425	AT 1971-5022	19710609
ZA 7103785	A	19720126	ZA 1971-3785	19710611
FR 2109619	A5	19720526	FR 1971-22082	19710617
ES 392355	A1	19740801	ES 1971-392355	19710617
NL 7108384	A	19711221	NL 1971-8384	19710618
JP 48019636	B4	19730614	JP 1971-43849	19710618
PRIORITY APPLN. INFO.:			HU 1970-RI392 A	19700618

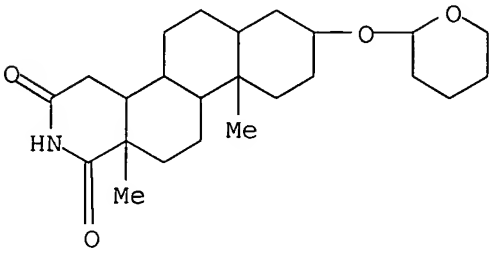
GI For diagram(s), see printed CA Issue.
AB 6,17-Seco-16, 17-imide derivs. I of steroids, useful as intermediates for bactericidal compds., were prepared from corresponding 16, 17-dioxo 16-oximes by treatment with AcOH and H2SO4 or from corresponding Me 16,



RN 37005-46-2 CAPLUS
CN 17-Aza-D-homoandrostane-3,16,17a-trione, (5α)- (9CI) (CA INDEX NAME)



RN 37005-49-5 CAPLUS
CN 17-Aza-D-homoandrostane-16,17a-dione, 3-[(tetrahydro-2H-pyran-2-yl)oxy]-, (3β,5α)- (9CI) (CA INDEX NAME)



L4 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1972:113430 CAPLUS
DOCUMENT NUMBER: 76:113430
TITLE: Steroid D-homo-imide derivatives
INVENTOR(S): Tuba, Zoltan; Bor, Mrs. Dezso
PATENT ASSIGNEE(S): Richter, Gedeon, Vegyeszeti Gyar Rt.
SOURCE: Hung. Teljes, 14 pp.
CODEN: HUXXBU
DOCUMENT TYPE: Patent
LANGUAGE: Hungarian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

HU 3040 19711122 HU 19700618

GI For diagram(s), see printed CA Issue.

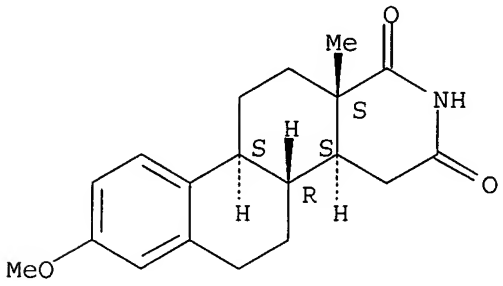
AB I in AcOH treated with aqueous H_2SO_4 at 60° and the mixture heated 1 hr at 85-95° in N gave 88% II. II was also prepared in 90% yield by treating III with NaOMe-MeOH. IV (Q = α-H, β-OH; α-H, β-OAc; OCH_2CH_2O) were prepared similarly.

IT **35570-05-9P 35570-06-0P 35574-26-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 35570-05-9 CAPLUS

CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 4a,4b,5,6,10b,11,12,12a-octahydro-8-methoxy-12a-methyl-, (4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

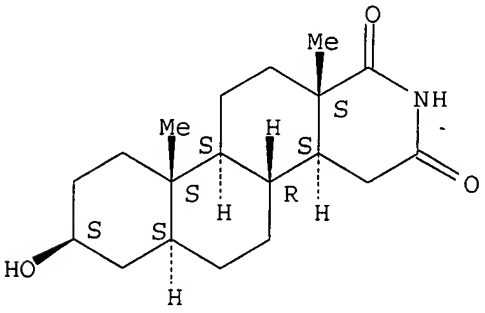
Absolute stereochemistry.



RN 35570-06-0 CAPLUS

CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, tetradecahydro-8-hydroxy-10a,12a-dimethyl-, (4aS,4bR,6aS,8S,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

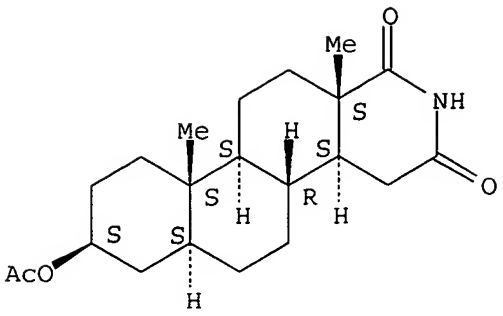
Absolute stereochemistry.



RN 35574-26-6 CAPLUS

CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 8-(acetyloxy)tetradecahydro-10a,12a-dimethyl-, (4aS,4bR,6aS,8S,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

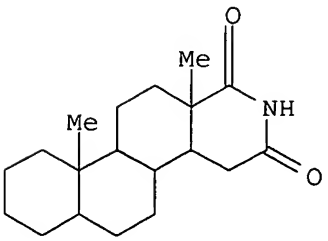
Absolute stereochemistry.



L4 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1969:450320 CAPLUS
DOCUMENT NUMBER: 71:50320
TITLE: Studies in the steroid group. LXXIX. Preparation of 2-aza-3-oxo, 3-aza-2-oxo-, 16-aza-17-oxo-, and 17-aza-16-oxo-5α-androstane, and of 3-aza-2-oxo-5α-cholestane
AUTHOR(S): Jones, Ewart R. H.; Meakins, George D.; Tuba, K. Z.
CORPORATE SOURCE: Dyson Perrins Lab., Oxford
SOURCE: Journal of the Chemical Society [Section] C: Organic (1969), (11), 1597-602
CODEN: JSOOAX; ISSN: 0022-4952
DOCUMENT TYPE: Journal
LANGUAGE: English

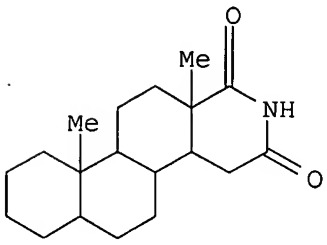
AB The title steroids were prepared by routes in which the yields at all stages are higher than 70%. For the ring-A lactams the key stages involve ring opening of 3-oxa- and 3-aza-2,4-diones; attack by nucleophiles occurs selectively at position 4. 17-Aza-5α-androstan-16-one is readily obtained by Beckmann rearrangement of the 16-hydroxyimino-17-ketone to 17-aza-D-homo-5α-androstane-16,17α-dione, followed by Hofmann degradation. The 16-aza-17-oxo-isomer was prepared from the 17-ketone in six stages by a sequence similar to that used previously for other 16-aza steroids.

IT **17916-38-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 17916-38-0 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 4aα,4bβ,5,6,6a.alph a.,7,8,9,10,10a,10bα,11,12,12a-tetradecahydro-10aβ,12aβ-dimethyl- (8CI) (CA INDEX NAME)



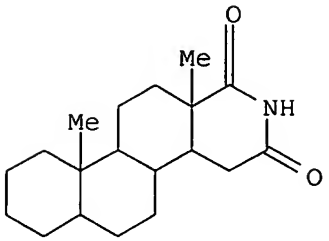
L4 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1969:450319 CAPLUS
DOCUMENT NUMBER: 71:50319
TITLE: Studies in the steroid group. LXXX. Proton magnetic

resonance and mass spectra of 2-aza-3-oxo-, 3-aza-2-oxo, 16-aza-17-oxo-, and 17-aza-16-oxo-5α-androstane
AUTHOR(S): Aplin, Robin T.; Meakins, George D.; Tuba, K. Z.; Woodgate, P. D.
CORPORATE SOURCE: Dyson Perrins Lab., Oxford, UK
SOURCE: Journal of the Chemical Society [Section] C: Organic (1969), (11), 1602-4
CODEN: JSOOAX; ISSN: 0022-4952
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Spectrometric examination establishes the structures of the title steroids (I-IV). In the mass spectrum of one of the ring-D lactams (the 17-aza-16-oxo isomer) the base peak arises from the (M-15) ion, and no other peak has an abundance of more than 8%. Distinction between the ring-A lactams depends upon differentiation, by 1H N.M.R., between the units >CHCH2-CONHCH2- and >CHCH2NHCOCH2-.
IT **17916-38-0**
RL: PRP (Properties)
(nuclear magnetic resonance of)
RN 17916-38-0 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 4aα,4bβ,5,6,6a.alpha.,7,8,9,10,10a,10bα,11,12,12a-tetradecahydro-10aβ,12aβ-dimethyl- (8CI) (CA INDEX NAME)



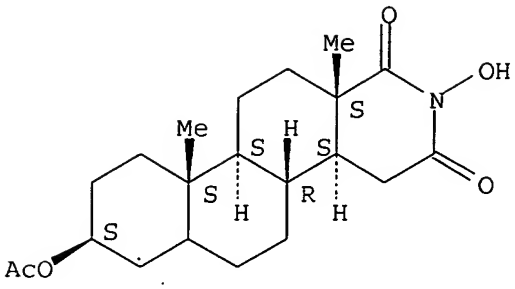
L4 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1968:87450 CAPLUS
DOCUMENT NUMBER: 68:87450
TITLE: Simple route to 17-aza-5α-androstan-16-one
AUTHOR(S): Jones, Ewart R. H.; Meakins, George D.; Tuba, K. Z.; Woodgate, P. D.
CORPORATE SOURCE: Dyson Perrins Lab., Oxford, UK
SOURCE: Chemical Communications (London) (1968), (4), 210-11
CODEN: CCOMA8; ISSN: 0009-241X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 68:87450
GI For diagram(s), see printed CA Issue.
AB A 3-step preparation of the title compound (I) in 48% yield is described. In the preparation, 5α-androstan-17-one is converted (tert-BuOK, RONO) to the 16-hydroxyimino derivative which is then subjected to a Beckmann rearrangement (H2SO4, AcOH, H2O) to give II. II is converted (Br2-NaOMe-MeOH) to I.
IT **17916-38-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 17916-38-0 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 4aα,4bβ,5,6,6a.alpha.,7,8,9,10,10a,10bα,11,12,12a-tetradecahydro-10aβ,12aβ-

dimethyl- (8CI) (CA INDEX NAME)



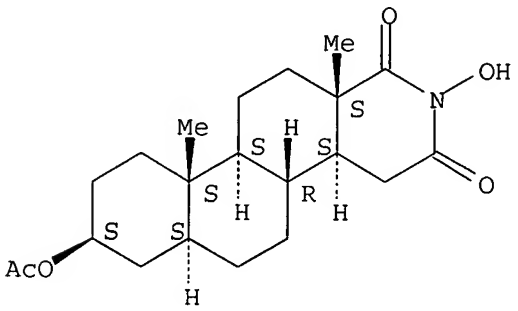
L4 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1963:455319 CAPLUS
DOCUMENT NUMBER: 59:55319
ORIGINAL REFERENCE NO.: 59:10153g-h,10154d-f
TITLE: A novel rearrangement of cyclic α-nitro ketones
AUTHOR(S): Hassner, Alfred; Larkin, John
CORPORATE SOURCE: Univ. of Colorado, Boulder
SOURCE: Journal of the American Chemical Society (1963), 85(14), 2181-2
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 59:55319
GI For diagram(s), see printed CA Issue.
AB cf. Larson and Wat, CA 58, 12603d. Steroidal α-nitro ketones are converted to N-hydroxy imides under acid conditions. From I, m. 105-7° (a 1:1 mixture of 16α and 16β epimers by nuclear magnetic resonance were prepared the following II (R, R', m.p., and % yield): H, H, 260-3°, 75; Ac, Ac (III), 231-2°, 80; Ac, H (IV), 241-5°, 75; H, Me, 214-15°, 95; Ac, Me, 186-8°, 85. The conversion of the 5,6dihydro derivative, prepared from I in 95% yield (m. 180-2°), results in an analogous series: 5,6-dihydro derivative of III, m. 180-2°, 80%, of IV, m. 224-6°, 80%. IV is also obtained in 75% yield by the reaction of V with NH2OH. Hydrolysis of III with KOH at room temperature gives II. With tert-BuOK, III is converted to 3β-hydroxy-16,17-seco-5-androstene-16,17-dioic acid. N-Acetoxy-2,3-secocholestane-2,3-dioic acid amide, m. 205-7° (decomposition), was prepared in 75% yield from 2-nitrocholestanone (m. 135-6°) and Ac2O, or upon treatment with HCl, followed by acetylation of the intermediate N-hydroxy imide, m. 184-8°. II is stable to acid hydrolysis even in the presence of levulinic acid. VI, m. 210-12°, was prepared by the LiAlH4-AlCl3 reduction of III followed by acetylation. The structure assignment of an N-hydroxyimide rather than an isomeric anhydride oxime is based on infrared spectra and chemical transformations. Two possible mechanisms are discussed.
IT **100627-30-3**, Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, tetradecahydro-2,8-dihydroxy-10a,12a-dimethyl-, 8-acetate **102281-18-5**, 16,17-Seco-5α-androstane-16,17-dioic imide, N-3β-dihydroxy-, 3-acetate **103308-17-4**, Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 2-acetoxytetradecahydro-8-hydroxy-10a,12a-dimethyl-, acetate
(preparation of)
RN 100627-30-3 CAPLUS
CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, tetradecahydro-2,8-dihydroxy-10a,12a-dimethyl-, 8-acetate (7CI) (CA INDEX NAME)

Absolute stereochemistry.



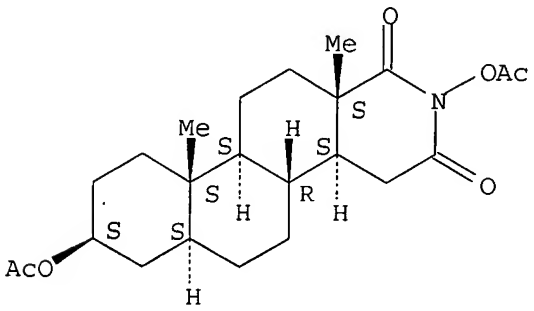
RN 102281-18-5 CAPLUS
CN 16,17-Seco-5α-androstane-16,17-dioic imide, N,3β-dihydroxy-, 3-acetate (7CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 103308-17-4 CAPLUS
CN 16,17-Seco-5α-androstane-16,17-dioic imide, N-acetoxy-3β-hydroxy-, acetate (7CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1963:455317 CAPLUS
DOCUMENT NUMBER: 59:55317
ORIGINAL REFERENCE NO.: 59:10152h,10153a-d,10154a-d
TITLE: Yohimbine derivatives
INVENTOR(S): Albright, Jay D.; Goldman, Leon
PATENT ASSIGNEE(S): American Cyanamid Co.
SOURCE: 26 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 619567		19631231	BE	
FR 1335543			FR	
FR M2170			FR	
GB 1007827			GB	
PRIORITY APPLN. INFO.:			US	19620410

GI For diagram(s), see printed CA Issue.

AB Derivs. of yohimbine substituted at the 16, 17, and (or) 18 C atoms were hypotensive agents with low toxicity; some were tranquilizers as well. A cold mixture of 10 g. yohimban-17-one (I) 10 g. MeONa, and 300 cc. dry C6H6 was treated with 14 cc. HCO2Et, stirred 20 h. at room temperature under N, and poured on 300 g. ice and 200 cc. H2O; the organic layer was washed with 0.1N soda. Neutralization of the combined washings and aqueous layer with AcOH precipitated 9.4 g. 18-hydroxymethyleneyohimban-17-one (II) hemihydrate, m. 207-10° (MeOH) (decomposition, sintered to a glass 145-8°); the mother liquor gave an addnl. 1.8 g. product. In a similar manner, 5 g. I treated with 1 g. MeONa and 17 cc. (CO2Et)2 yielded 3.41 g. Et 17-oxoyohimban-18α-glyoxylate (III), m. 215-16° (decomposition). Reaction of 0.589 g. yohimban-16-one, 0.118 g. MeONa, and 2.0 cc. (CO2Et)2 in 40 cc. dry C6H6 20 h., followed by addition of AcOH and ether, filtration, separation of Et2O, and evaporation in vacuo of Et2O yielded a residue, recrystd. to give 0.107 g. Et 16-oxoyohimban-17β-glyoxylate (IV), m. 192-5° (decomposition; bath preheated to 180°). Filtration, after 24 h, of a mixture of 0.22 g. alloyohimban-17-one, 0.444 g. MeONa, and 7.5 cc. (CO2Et)2 in 150 cc. C6H6 gave the Na salt of the enol form of the product. The salt, dissolved in MeOH and passed over a column of Amberlite IRC-50 (H+), was converted to Et 17-oxoalloyohimban-16β-glyoxylate, m. 207-9° (decomposition) [picrate, prepared from acidified Na salt, m. 198-201° (decomposition)]. A mixture of 1.0 g. II, 0.225 g. NH2OH.HCl, and 15 cc. AcOH, heated 6 min. at 100°, chilled, and filtered, furnished a residue recrystd. from MeOH to 0.148 g. mixed yohimbano[17,18-c]isoxazole HCl.0.25H2O and yohimbano[18,17-d]isoxazole-HCl.0.25H2O, m. 310-15° (decomposition). Yohimbano[17,18-c]pyrazole (V) (4.61 g.), m. 240-4° (decomposition), was prepared by refluxing for 0.5 h. a mixture of 5.0 g. II, 0.80 cc. H2NNH2.H2O, and 100 cc. EtOH, evaporation of solvent in vacuo the following day, and recrystn. of the residue from MeOH. Substitution of H2NNH2.2HCl gave yo-himbano[17,18-c]pyrazole-2HCl.0.25H2O, m. 301-5°. A cold mixture of 1 g. V and 0.84 cc. Et3N in 45 cc. dry CHCl3 was treated with 0.79 g. 3,4,5-(MeO)3C6H2COCl, let stand 18 h. at room temperature, washed with Na2CO3 solution and dried; removal of solvent in vacuo, trituration of the residue with absolute EtOH, and filtration gave 1.05 g. mixture of 5,8,8aβ,9,12,13,13aα,14,14a.alpha.,15-deca-hydro-12-(3,4,5-trimethoxybenzoyl)- and 5,8,8aβ,9,11,13,13aα,-14,14aα,15 - decahydro - 11 - (3,4,5 - trimethoxybenzoyl) - 6H- in-dazolo[5,6-g]indolo[2,3-a]quinolizine, m. 234-6° (decomposition). Refluxing 5.0 g. II and 1.05 cc. PhNHNH2 in 100 cc. EtOH for 30 min., filtering the following day, and removing the solvent gave a glass, recrystd. from EtOAc to yield 3.91 g. mixture of 5,8,8aβ,-9,11,13,13aα,14,14aα,15-decahydro-11-phenyl- and 5,8,8aβ,9,-12,13,13aα, 14,14aα, 15 - decahydro - 12 - Ph - 6H- indazolo [5,6-g]indolo[2,3-a]quinolizine, m. 195-212° (decomposition); fractional crystallization from MeOH, then EtOAc gave 1.15 g. isomer, m. 203-7° (decomposition) and 1.20 g. isomer, m. 248-55° (decomposition). A mixture of 0.60 g. IV, 0.08 cc. H2NNH2.H2O, and 25 cc. EtOH, refluxed 30 min. and allowed to stand overnight, furnished 0.547 g. orange glass on removal of the solvent. Recrystn. from Et-OAc gave Et 4,5,5aα,6,8,9,14,14bβ,15,15aβ-decahydro-2H-in-dazolo[6,7-g]indolo[2,3-a]quinolizine-3-carboxylate-0.75H2O, m.

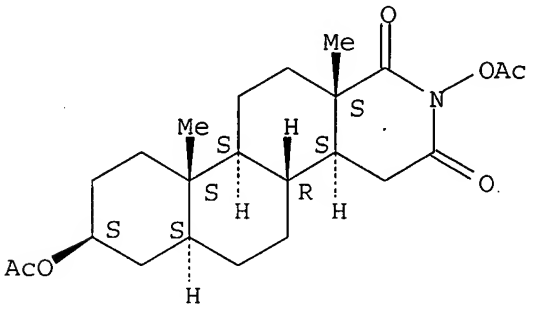
277-83° (decomposition, sintered at 150°). In the same manner, reaction of 0.40 g. IV and 0.11 cc. PhNHNH2, in 25 cc. EtOH yielded 0.58 g. glass, recrystd. from EtOH to give a mixture of Et 1,4,5,5aα,8,9,14,14bβ,15,15aβ-decahydro-1-phenyl-6H- and 4,5,-5aα,6,8,9,14,14bβ, 15,15aβ - decahydro - 2 - Ph - 2H -indazolo-[6,7-g]indolo[2,3-a]quinolizine-3-carboxylate-0.5H2O, m. 236-40° (decomposition). A mixture of 0.06 cc. H2NNH2.H2O, 0.495 g. III, and 35 cc. absolute EtOH, refluxed 1.5 h and treated as above gave 0.46 g. residue, worked up using EtOH-CH2Cl2 and Et2O for precipitation, gave Et 5,8,8aβ,9,11,13,13aα,14,14aα,15-decahydro-6H-indazolo[5,6-g]indolo[2,3-a]quinolizine-10-carboxylate, m. 289-93° (decomposition).

IT **103308-17-4**, Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, 2-acetoxytetradecahydro-8-hydroxy-10a,12a-dimethyl-, acetate (preparation of)

RN 103308-17-4 CAPLUS

CN 16,17-Seco-5α-androstane-16,17-dioic imide, N-acetoxy-3β-hydroxy-, acetate (7CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1959:94954 CAPLUS

DOCUMENT NUMBER: 53:94954

ORIGINAL REFERENCE NO.: 53:17191c-i

TITLE: Ring D steroid oximes and the Beckmann rearrangement

AUTHOR(S): Heard, R. D. H.; Ryan, Michael T.; Bolker, H. I.

CORPORATE SOURCE: McGill Univ., Montreal, Can.

SOURCE: Journal of Organic Chemistry (1959), 24, 172-5
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

OTHER SOURCE(S): CASREACT 53:94954

AB Whereas simple ring D and ring A steroid oximes yielded the corresponding oxime acetates on subjection to mild acetylating conditions, 3β-hydroxyandrostane-16,17-dione 16-oxime (I) gave a pure crystalline compound which was characterized by its chemical properties and behavior as an intermediate in a Beckmann rearrangement. Rearrangement could be completed under appropriate, though equally mild, conditions. Reasons for the unexpected rearrangement under such mild conditions are advanced. I purified by dissolving 2.95 g. crude product in 40 ml. MeOH and 10 ml. H2O, refluxing with C, and concentrating gave 70% I, m. 220°, λ 240 mμ, ε 9570. I(100 mg.) in 1 ml. C5H5N and 1 ml. Ac2O left overnight gave 102 mg. C23H33O5N (II), m. 163-5° (Et2O), λ 223 mμ, ε 9431, stable in the dark, turned yellow within 1 week when exposed to light, and unstable in alc. (223 mμ peak disappeared). The structure of II corresponded to that of an intermediate in the Beckmann rearrangement of I. Oximes were prepared in the usual way by refluxing in alc. for 2 hrs. in the presence of excess NH2OH.HCl and

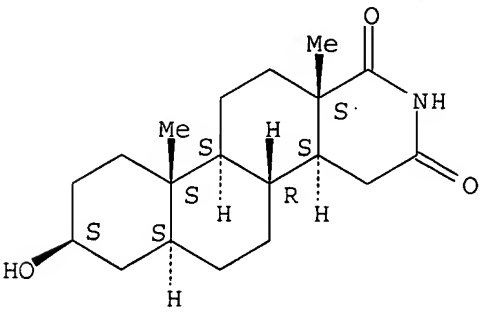
NaOAc. Acetylating conditions identical to those used in preparing II were used and the authenticity of the acetates was established by alkaline hydrolysis to the starting oximes. 17-Oximino-3β-acetoxyandrostane, m. 184-6°, gave 17-acetoximino-3β-acetoxyandrostane, m. 180-0.5°; cholestanone oxime, m. 200-1°, gave 3-acetoximinocholestane, m. 124-38°; testosterone oxime, m. 222-3°, gave 17β-acetoxy-3-acetoximino-4-androstene. II(0.5 g.)in 50 ml. 95% alc. was refluxed and samples were drawn at 1 hr. intervals and after the appropriate dilution measured in the spectrophotometer at 223 mμ. The ε value change with time was as follows (time in hrs. and ε value given): 0, 9400; 1, 1410; 3, 427; 4,427. After 6 hrs. an oil (III) was obtained; it was insol. in aqueous Na2CO3 and could not be extracted from an Et2O solution with alkali. III (0.5 g.) in 50 ml. alc. refluxed 20 hrs. with 2.5 g. KOH gave a mixture of 3β-hydroxy-16,17-secoandrostan-16,17-dioic imide(IV)and 3β-hydroxy-16,17-seco-16,17-dioic acid 17-amide (V). CHCl3 (60 ml.) added to the acidified aqueous suspension dissolved IV; the suspension filtered, and the precipitate collected and dried gave 220 mg. V, m. 218.5-20.5°. V dissolved in cold AcOH and treated with NaNO2 gave no evolution of N, which confirmed the tertiary nature of the amide group. The CHCl3 solution gave 113 mg. IV, m. 180-2.5° (MeOH-H2O). IV refluxed 24 hrs. in 10% aqueous KOH gave V. V (40 mg.) heated gradually to 200° with 5 ml. 20% KOH in glycerol gave a copious evolution of N. The heating stopped after 2.5 hrs., the mixture diluted with H2O, acidified, and left 2 hrs., and the solid filtered off and washed gave 20 mg. II.

IT **35570-06-0**, 16,17-Seco-5α-androstane-16,17-dioic imide, 3β-hydroxy- **119013-51-3**, 16,17-Seco-5α-androstane-16,17-dioic imide, 3β-hydroxy-, diacetate
(preparation of)

RN 35570-06-0 CAPLUS

CN Naphth[2,1-f]isoquinoline-1,3(2H,4H)-dione, tetradecahydro-8-hydroxy-10a,12a-dimethyl-, (4aS,4bR,6aS,8S,10aS,10bS,12aS)- (9CI) (CA INDEX NAME)

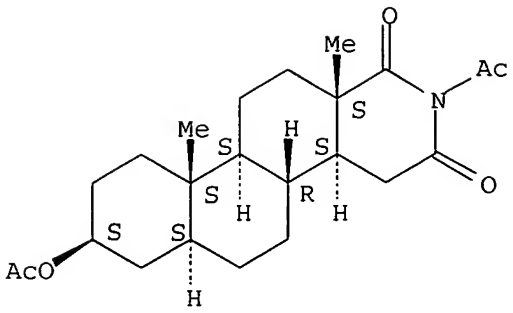
Absolute stereochemistry.



RN 119013-51-3 CAPLUS

CN 16,17-Seco-5α-androstane-16,17-dioic imide, 3β-hydroxy-, diacetate (6CI) (CA INDEX NAME)

Absolute stereochemistry.

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L3           87 S L1 FULL

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L4           24 S L3

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L1              STR
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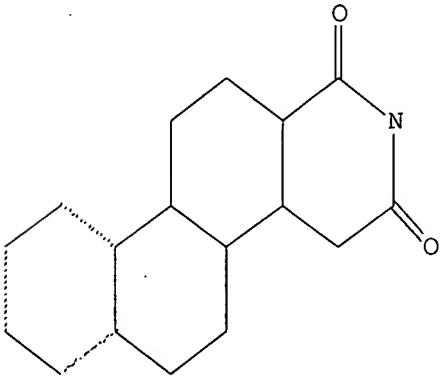

Structure attributes must be viewed using STN Express query preparation.

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Day : Thursday
Date: 1/27/2005
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Inventor Name Search Result

Your Search was:

Last Name = POTTER
First Name = BARRY

Application#	Patent#	Status	Date Filed	Title	Inventor Name 51
60513217	Not Issued	159	10/23/2003	COMPOUND	POTTER, BARRY V L
60436635	Not Issued	159	12/30/2002	COMPOUND	POTTER, BARRY VICTOR LLOYD
60365258	Not Issued	159	03/18/2002	REGULATION OF INS (3456)P4 SIGNALLING BY A REVERSIBLE KINASE/PHOSPHATASE AND METHODS AND COMPOSITIONS RELATED THERETO	POTTER, BARRY V L
60346483	Not Issued	159	01/07/2002	COMPOUND	POTTER, BARRY VICTOR LLOYD
60218730	Not Issued	159	07/17/2000	COMPOSITION	POTTER, BARRY VICTOR LLOYD
60139520	Not Issued	159	06/16/1999	USE	POTTER , BARRY V. L.
29164622	D474127	150	07/30/2002	LOCKET	POTTER, BARRY M.
29147976	D464287	150	09/13/2001	LOCKET	POTTER, BARRY
10991137	Not Issued	019	11/17/2004	COMPOUND	POTTER, BARRY VICTOR LLOYD
10955962	Not	019	09/30/2004	STEROID 3-O-SULPHAMATE	POTTER,

	Issued			DERIVATIVES AS INHIBITORS OF OESTRONE SULPHATASE	BARRY VICTOR LLOYD
10825758	Not Issued	030	04/16/2004	STEROIDAL COMPOUNDS FOR INHIBITING STEROID SULPHATASE	POTTER, BARRY VICTOR LLOYD
10730589	Not Issued	030	12/08/2003	THERAPEUTICS	POTTER, BARRY V.L.
10728383	Not Issued	041	12/05/2003	COMPOSITIONS COMPRISING OESTRONE-3-0-SULPHAMATE AND TRAIL (TNF-RELATED APOPTOSIS INDUCING LIGAND)	POTTER, BARRY VICTOR LLOYD
10690708	Not Issued	030	10/23/2003	COMPOUND	POTTER, BARRY VICTOR LLOYD
10674892	Not Issued	030	09/30/2003	COMPOUND	POTTER, BARRY VICTOR LLOYD
10469954	Not Issued	030	03/17/2004	USE	POTTER, BARRY VICTOR LLOYD
10367623	Not Issued	030	02/14/2003	THIOETHER SULPHAMATE STEROIDS AS STEROID INHIBTORS AND ANTI-CANCER COMPOUNDS	POTTER, BARRY VICTOR LLOYD
10367622	Not Issued	030	02/14/2003	17-ARYL LINKER DERIVATISED ESTROGEN 3-SULPHAMATES AS INHIBITORS OF STEROID SULPHATASE	POTTER, BARRY VICTOR LLOYD
10367114	Not Issued	083	02/14/2003	OESTROGEN-17-SULPHAMATES AS INHIBITORS OF STEROID SULPHATASE	POTTER, BARRY VICTOR LLOYD
10343667	Not Issued	019	01/01/0001	NAADP ANALOGUES FOR MODULATING T-CELL ACTIVITY	POTTER, BARRY V L
10327500	Not Issued	041	12/20/2002	COMPOUND	POTTER, BARRY VICTOR LLOYD
10300494	Not	041	11/20/2002	COMPOUND	POTTER,

	Issued				BARRY VICTOR LLOYD
10120275	Not Issued	041	04/10/2002	COMPOSITION	POTTER, BARRY VICTOR LLOYD
10084235	Not Issued	061	02/25/2002	STEROID SULPHATASE INHIBITORS	POTTER, BARRY VICTOR
10082007	6677325	150	02/21/2002	STEROID SULPHATASE INHIBITORS	POTTER, BARRY VICTOR LLOYD
10013798	Not Issued	061	12/10/2001	USE	POTTER, BARRY VICTOR LLOYD
09868348	Not Issued	161	06/15/2001	CYCLIC ADENOSINE DIPHOSPHATE RIBOSE ANALOGUES FOR MODULATING T CELL ACTIVITY	POTTER, BARRY V L
09794853	Not Issued	094	02/27/2001	STEROID SULPHATASE INHIBITORS	POTTER, BARRY VICTOR LLOYD
09755429	6653298	150	01/05/2001	COMPOSITION	POTTER, BARRY VICTOR LLOYD
09724986	6676934	150	11/28/2000	PHARMACEUTICAL COMPOSITION WITH TUMOR NECROSIS FACTOR A AND 2-METHOXYESTRONE-3-0-SULPHAMATE FOR INHIBITION OF ESTRONE SULPHATASE	POTTER, BARRY VICTOR LLOYD
09638315	6506792	150	08/14/2000	COMPOUNDS THAT INHIBIT OESTRONE SULPHATASE AND/OR AROMATASE AND METHODS FOR MAKING AND USING	POTTER, BARRY VICTOR LLOYD
09638314	Not Issued	094	08/14/2000	COMPOUND	POTTER, BARRY VICTOR LLOYD
09579163	6642397	150	05/25/2000	STEROID SULPHATASE INHIBITORS	POTTER, BARRY VICTOR LLOYD

09572246	Not Issued	094	05/17/2000	STEROID 3-O-SULPHAMATE DERIVATIVES AS INHIBITORS OF OESTRONE SULPHATASE	POTTER, BARRY VICTOR LLOYD
09572237	6670353	150	05/17/2000	OXIME-GROUP CONTAINING OESTRONE SULPHATASE INHIBITORS	POTTER, BARRY VICTOR LLOYD
09561453	Not Issued	093	04/28/2000	METHODS FOR TREATING OR PREVENTING CANCER BY PREVENTING, INHIBITING OR ARRESTING CELL CYCLING	POTTER, BARRY VICTOR LLOYD
09319213	6642220	150	11/23/1999	COMPOUND	POTTER, BARRY VICTOR LLOYD
09238345	6187766	150	01/27/1999	STEROID SULPHATASE INHIBITORS	POTTER, BARRY VICTOR
09193970	6476011	150	11/18/1998	METHODS FOR INTRODUCING AN ESTROGENIC COMPOUND	POTTER, BARRY VICTOR LLOYD
09193969	6159960	150	11/18/1998	STEROID SULPHATASE INHIBITORS.	POTTER, BARRY VICTOR LLOYD
09142194	6083978	150	09/02/1998	COMPOUNDS WITH A SULFAMATE GROUP	POTTER, BARRY V.
09125255	6239169	150	08/14/1998	NON-STEROIDAL POLYCYCLIC RING SULPHAMATE DERIVATIVES, THEIR PREPARATION AND THEIR USE AS OESTRONE SULPHATASE INHIBITORS	POTTER, BARRY V.
09111927	6011024	150	07/08/1998	STEROID SULPHATASE INHIBITORS	POTTER, BARRY VICTOR LLOYD
09044984	6017904	150	03/20/1998	STEROID SULPHATASE INHIBITORS	POTTER, BARRY VICTOR LLOYD
08458352	5830886	150	06/02/1995	STEROID SULPHATASE INHIBITORS	POTTER, BARRY V. L.
08456122	5861390	150	05/31/1995	STEROID SULPHATASE INHIBITORS	POTTER

					, BARRY V.
08196192	5616574	150	12/27/1994	STEROID SULPHATASE INHIBITORS	POTTER, BARRY V. L.
08196191	5604215	150	12/27/1994	STEROID SULPHATASE INHIBITORS	POTTER, BARRY V.L.
08141700	Not Issued	168	10/26/1993	INOSITOL PHOSPHATE ANALOGUES	POTTER, BARRY VICTOR L
07401448	Not Issued	166	11/07/1989	INOSITOL PHOSHATE ANALOGUES	POTTER, BARRY VICTOR L.
07232287	4890601	150	08/15/1988	GAS BURNER	POTTER, BARRY C

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